

7. (Amended) The process according to claim 1, wherein a method of coating under vacuum is used in step a).
10. (Amended) Apparatus according to claim 8, wherein said separating agent is an inorganic separating agent which may be evaporated in vacuum without dissociation, said product layers include metals, oxides, fluorides or carbides, and said carrier (5) comprises metal, glass, enamel, ceramic, or an organic material.
11. (Amended) The apparatus according to claim 7, wherein said carrier (5) comprises an open or closed, rotationally symmetrical, rigid body.
12. (Amended) The apparatus according to claim 7, wherein said carrier (5) comprises several open or closed, rotationally symmetrical, rigid bodies which rotate about a common axis or about several axes.
16. (Amended) The apparatus according to claim 8, comprising means for coating said carrier with a separating agent layer prior to application of said product layer, wherein said separating agent is a meltable organic separating agent, said product layers include metals, oxides, fluorides or carbides, and said carrier (5) comprises metal, glass, enamel, ceramic, or an organic material.